

METHOD AND SYSTEM FOR DISTRIBUTING DATA
COMMUNICATIONS UTILIZING A CROSSBAR SWITCH

ABSTRACT

A solid-state crossbar switch for transmitting data traffic includes a first number of input ports. Each input port is operable to receive DSL data from a data switch. The crossbar switch also includes a second number of output ports. Each output port is capable of being coupled to a customer premise equipment (CPE) device. The crossbar switch includes a third number of $1 \times N$ solid-state analog switches. Each $1 \times N$ solid-state analog switch is operable to couple one of the input ports with N output ports. Each input port may be coupled to one of the analog switches. The second number of output ports may be greater than N . The crossbar switch may include a sweeper port coupled to each output port. The sweeper port is operable to monitor each output port to detect an active connection of a CPE device to one of the output ports.

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